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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No		No	4041K-000076			
First Inventor Takayı			ayukı HAYASHI et al			
Title	Heat Exchanger					
Expres	s Mail Lab	el No	EL 835 746 231 US			

70 (Only for new nonprovisional applications under 37 C F R. 1 53(b)) Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: Box Patent Application See MPEP chapter 600 concerning utility patent application contents Washington, DC 20231 1. Fee Transmittal Form (e.g., PTO/SB/17) 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) (Submit an onginal and a duplicate for fee processing) 2. Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) з. 🛛 [Total Pages L Specification a. Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: - Descriptive title of the Invention i. CD-ROM or CD-R (2 copies); or - Cross References to Related Applications ii. 🔲 paper - Statement Regarding Fed sponsored R & D c. Statements verifying identity of above copies - Reference to sequence listing, a table, or a computer program listing appendix **ACCOMPANYING APPLICATIONS PARTS** - Background of the Invention - Brief Summary of the Invention 9. Assignment Papers (cover sheet & document(s)) - Brief Description of the Drawings (if filed) 10. 🔲 37 C.F.R.§3.73(b) Statement Power of - Detailed Description (when there is an assignee) Attorney - Claim(s) - Abstract of the Disclosure 11. 🔲 English Translation Document (if applicable) 4. Drawing(s) (35 U.S.C.113) [Total Sheets 12. 🗌 Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 5. Oath or Declaration Total Pages 13. 🔲 Preliminary Amendment a. Newly executed (original or copy) 14. 🛛 Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) Certified Copy of Priority Document(s) i ☐ DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting inventor(s) 16. 🗌 Request and Non Publication under 35 U.S.C. 122 named in the pnor application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1 63(d)(2) and 1 33(b) or its equivalent. 6. Application Data Sheet. See 37 CFR 1.76 17. \square Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☐ Continuation □ Divisional ☐ Continuation-in-part (CIP) of prior application No ____ Prior application information: Examiner Group / Art Unit: _ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Correspondence address below ☑ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) Harness, Dickey & Pierce, P.L.C. Name P.O. Box 828 Address City Bloomfield Hills MI 48303 State Zip Code Country United States of America Telephone 248-641-1600 Fax 248-641-0270 H. Keith Miller, Esq. Name (Print/Type) Registration No. (Attorney/Agent) 22.484 Signature Date December 18, 2001

Burden Hour Statement This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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EEE TO AND			Complete if Known				
FEE TRANS		Application Number					
for FY 2002		Filing Date	December 18, 2001				
		First Named Inventor	Takayuki HAYASHI et al				
Patent fees are subject to	annual revision	Examiner Name					
		Group / Art Unit					
TOTAL AMOUNT OF PAYMENT	(\$) 1014	Attorney Docket No	4041K-000076				

METHOD OF PAYMENT (check one)								FEE CALCULATION (continued)					
The Commissioner is hereby authorized to charge indicated fees and credit any over payments to				3. ADDITIONAL FEES									
"		indicate	ea rees	and credit any c	ver payments to			Large Entity		Small Entity			
Depos Accou		08-0750	n				Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Numbe		00-07-50	•				105	130	205	65	Surcharge - late filing fee or oath		
Denos	Deposit 1					127	50	227	25	Surcharge - late provisional filing fee or cover sheet			
Accou		Harnes	s, Dick	ey & Pierce, P L	c		139	130	139	130	Non-English specification		
Name							147	2,520	147	2,520	For filing a request for reexamination		
		/ Additiona CFR 1 16 a					112	920*	112	920*	Requesting publication of SIR prior to Examiner action		
s	See 37 Cl			y status			113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		
2. 🛛 Payment Enclosed					115	110	215	55	Extension for reply within first month				
⊠c	heck	☐ Cred	it card	☐ Money	☐ Other		116	400	216	200	Extension for reply within second month		
				Order			117	920	217	460	Extension for reply within third month		
1. BA	ASIC FIL	ING FEE	-EE C	ALCULATION			118	1,440	218	720	Extension for reply within fourth month		
	Entity S		ntity				128	1,960	228	980	Extension for reply within fifth month		
Fee	Fee F	ee F	ee	Fee Description	1		119	320	219	160	Notice of Appeal		
		Code (\$	5)		Fee Paid	_	120	320	220	160	Filing a brief in support of an appeal		
				Utility filing fee	740	_	121	280	221	140	Request for oral hearing		
				Design filing fee Plant filing fee		-	138	1,510	138	1,510	Petition to institute a public use proceeding		
108	740 2	:08 3	70	Reissue filing fe	e	7	140	110	240	55	Petition to revive – unavoidable		
114	160 2	14 80	0	Provisional filling	j fee	7	141	1,280	241	640	Petition to revive – unintentional		
						_	142	1,280	242	640	Utility issue fee (or reissue)		
SUBTOTAL (1) (\$) 740				143	460	243	230	Design issue fee					
2. EXTRA	A CLAIN	FEES					144	620	244	310	Plant issue fee		
					ee from Fee		122	130	122	130	Petitions to the Commissioner		
Total Claims	33	-20 **	· _ r	Claims b	elow Paid 18 = 234	- i	123	50	123	50	Processing fee under 37 CFR 1 17 (q)		
Independent Claims		-3**	_ [0 X	18 = 234	1	126	180	126	180	Submission of Information Disclosure Stmt		
Multiple Dependent	L.		_ [x [= 0		581	40	581	40	Recording each patent assignment per property (times number of properties)	40	
Large	Entity		Entity	′		7	146	740	246	370	Filing a submission after final rejection (37 CFR § 1 129(a))		
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Descript	ion		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))		
103	18	203	9	Claims in exc									
102	84	202	42		claims in excess of 3		179	740	279	370	Request for Continued Examination (RCE)		
104 109	280 84	204	140 42		ndent claim, if not paid dependent claims over		169	900	169	900	Request for expedited examination of a design application		
110	18	210	9		ams in excess of 20 an	d							
				over original [Jaiotti	,	Other fe	e (specify	y)	-			
SUBTOTAL (2) (\$) 234					*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (5) 40								
				Heaud	ed by Ba	sic Hilin	g ree Pa	aid SUBTOTAL (3) (\$) 40					
ror numbe	er previou	sly paid, if (greater,	For Reissues, se	e above								

SUBMITTED BY			C	omplete (if applicable)	
Name (Print/Type)	H. Keith Miller, Esq. // Registration No. Attorney/Agent)	22,484	Telephone	248-641-1600	
Signature	RILLAND		Date	December 18, 2001	